Relationship between Basic and Applied Research Efforts in the USER

Scientific research in the USER is carried out by industrial
enterprises and by non-economic agencies of the State. Of chief
importance among the latter are the higher educational institutions and
the Academy of Sciences, the pinneole of the state system of research
institutes. Applied research is largely a function of industrial
research components. The efforts of the non-economic research organization
is mainly confined to besic research, but considerable activity of
this type is also carried on in industrial installations.

FINANCING OF RESEARCH

Four known sources of research financing are presently utilized. The State Budget allocates funds under the category "scientific and research work" within the Education portion of the Social-Quitural appropriation. This Budget appropriation finances all research in higher educational institutions, state research institutes, and part of the effort in industry.

Some of the research performed by graduate students and teachers in universities may be financed by general educational funds in which case it is covered by the Education category proper under the Social-Cultural appropriation.

Industrial and other sconomic anterprises expand funds for "Planning and scientific research" Such cutlays of a research nature

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are not considered an element in production cost and presumably finance
the more basically oriented research performed in economic organizations,
as well as that more closely related to immediate production requirements.

Lastly, as a component in cost of production, economic enterprise accounts contain the entry "expenditures for laboratory testing and scientific-research work". Presumably such outlays are entirely of the applied research variety, representing activities immediately related to current production activities.

ESTIMATES OF BASIC RESKARCH EXPENDITURES

From the description of the several sources used for research from the several sources used for research from the several sources from budget allocations to research and possibly from the general educational appropriation and from enterprise subleys not included as production costs. Applied research is financed from the budgetary research appropriation and from enterprise expanditures of both a production cost and non-production cost ratures.

Expenditure magnitudes are specially available for budgetary research allocations and for those unterprise outlays not chargeable to production cost.

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Soviet Research Expenditures (billions gureant rubles)

YEAR	BUDGET RESIEARCH ALLOCATIONS	enterprise research funds	TOTAL PLANTED OUTLAYS
1946	5-1	1.3	6.4
1947	6.5	1.4	7.9
1948	n.a.	H.A.	8.5
1949	6,6	2.5	9-1
1950	5.6	2.5	8.1
1951	5-3	2.7	8.0
1952	5.6		n.v.
1953	W.A.	# . # ,	H.A.
1954	H.A.		9.5
1955	H.A.		10.5
		100 W	100

Indications of the amount, if any of research supported by general educational outlays are not swallable. Since enterprise research outlays financed as a cost of production would be recorded in the inaccessible internal accounts of enterprises, it is not feasible to arrive at estimates for outlays of this type. However, the lion's share of basic research is covered by the two quantifiable expanditure categories. The more perplaxing problem is to remove the applied research element from the figures. This refinement is not possible given current data limitations. However, it is reasonable to openlude that the preponderant share of these expanditures supports basic research activities.

In 1951 total quantifiable research outlays comprised about 0.75 percent of gross national product. (GMP) Since both of these magnitudes increased about 30 percent between 1951 and 1955, their current relationship is about the same as that prevailing in 1951. The research effort as a proportion of GMP has risen alightly from the prewar period. Between 1939 and 1952 there was somewhat less than a doubling in the number of salantific personnal while GMP increased by over 80 percent.